

# AISHA KHALIL

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## EDUCATION

**Rutgers University, New Brunswick, NJ**

**May 2026**

**B.A. in Information Technology** | Specialization in Data Science

**Minor in Health Administration**

- **Relevant coursework:** Data Management in Healthcare, Quantitative Analysis, Database Technologies, Data Curation and Management, Information Visualization, Data Analytics for Information Professionals, Management of Technological Organizations, Project Management
- **Certification: IBM Data Science Professional Certificate** (9-course ACE® and FIBAA recommended program covering the full data science lifecycle), completed Mar 2026

## PROJECTS

**SpaceX Launch Data Pipeline & Landing Prediction** | *Python, SQL, REST APIs, SQLite, scikit-learn*

- Built an ETL-style workflow that collected Falcon 9 launch data from 3 disparate sources (SpaceX REST API, Wikipedia web scraping, SQLite queries); standardized 180+ records into a cleaned dataset for analysis and reporting
- Performed data validation, feature preparation, and exploratory analysis across 10+ fields, balancing the training set with SMOTE, then created charts and summary outputs to surface launch trends and operational patterns

**Australian Weather Rainfall Prediction** | *Python, pandas, scikit-learn*

- Developed a preprocessing pipeline using ColumnTransformer, scaling, and one-hot encoding for mixed-type weather data; tuned Random Forest and Logistic Regression with GridSearchCV and StratifiedKFold.
- Evaluated results with confusion matrices, classification metrics, and feature analysis, translating technical output into clear performance insights instead of model-only reporting

**Regression & Model Optimization Suite** | *Python, SQL, scikit-learn, Excel*

- Analyzed linear, Ridge, and Lasso regression models on emissions and high-dimensional datasets using EDA, feature selection, and evaluation with R<sup>2</sup>, MAE, MSE, and RMSE.
- Improved repeatability through reusable preprocessing and tuning workflows; applied feature selection and PCA-supported analysis to identify key variables and summarize findings

## TECHNICAL SKILLS

- **Languages:** Python, SQL, R
- **Libraries:** pandas, NumPy, scikit-learn, SciPy, Matplotlib, Seaborn
- **Databases:** PostgreSQL, SQLite
- **Tools:** Jupyter Notebook, GitHub, Watson Studio, RStudio, Microsoft 365
- **Analytics:** Tableau, Power BI, Exploratory analysis, reporting, dashboarding, data visualization
- **Data Engineering:** ETL workflows, data cleaning, transformation, validation, API integration, web scraping

## PROFESSIONAL EXPERIENCE

**Sunglass Hut | Sales Associate—Key Holder**

**Nov 2024 - Present**

- Trusted to independently manage store, consistently exceeded sales goals in a high-traffic retail environment, earning more than \$500 in bonuses and vouchers through consultative selling and product knowledge.
- Handled cash transactions and end-of-day reconciliation with attention to detail while supporting merchandising, loss prevention, and overall store presentation.

**Windsor Fashions | Sales Associate**

**Jun 2022 - Nov 2024**

- Delivered customer-focused support across styling, checkout, fitting rooms, and recovery operations in a fast-paced store environment, contributing to daily sales and service goals.
- Built repeat-customer loyalty and became a preferred associate for returning shoppers while maintaining accurate POS transactions, merchandising support, and inventory accuracy.